

## Form PTO-1449 (modified)

Atty. Docket No.  
SILA:097Serial No.  
10/075,099Applicants  
TOD PAULUS ET AL.Filing Date:  
2/12/02Group:  
2681U.S. Patent Documents  
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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
J-L	A1	5,828,955	10/27/98	Lipowski et al.			8/30/95
J-L	A2	6,035,186	3/7/00	Moore et al.			3/11/97
J-L	A3	6,075,979	6/13/00	Holtvoeth et al.	RECEIVED DEC 04 2002		3/5/97
J-L	A4	5,764,171	6/9/98	Stikvoort	Technology Center 2600		4/2/96
J-L	A5	6,148,048	11/14/00	Kerth et al.			9/26/97
J-L	A6	4,713,563	12/15/87	Marshall et al.			5/12/86
J-L	A7	4,070,632	1/24/78	Tuttle			9/22/76
J-L	A8	4,236,252	11/25/80	Kominami et al.			2/6/79
J-L	A9	4,680,588	7/14/87	Cantwell			12/5/85
J-L	A10	4,857,928	8/15/89	Gailus et al.			1/28/88
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J-L	A23	5,500,645	3/19/96	Ribner et al.			3/14/94

Examiner:

*John*

Date Considered:

*11/22/04*

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List of Patents and Publications for Applicant's  
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See Pages 3-10**U.S. Patent Documents**

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J.L	A24	5,557,642	9/17/96	Williams			11/14/94
J.L	A25	5,712,628	1/27/98	Phillips et al.			8/31/95
J.L	A26	5,742,189	4/21/98	Yoshida et al.		RECEIVED	9/14/95
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J.L	A29	5,758,276	5/26/98	Shirakawa et al.			5/31/96
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J.L	A40	4,584,659	4/22/86	Stikvoort			7/5/83
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J.L	A42	4,604,720	8/5/86	Stikvoort			3/16/84
J.L	A43	5,157,343	10/20/92	Voorman			5/31/91
J.L	A44	5,124,705	7/23/92	Voorman			7/10/91
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JL	A47	6,323,735	11/27/01	Welland et al.			5/25/00
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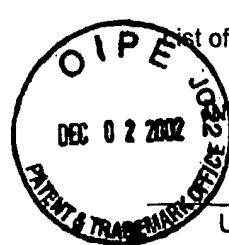
Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	B1	WO 00/22735	4/20/00	Ali			RECEIVED DEC 04 2002
	B2	GB2233518A	1/9/91	Dedic			
	B3	0643477A2	3/15/95	Hulkko et al.			
	B4	WO 00/11794	3/2/00	Moore et al.			
	B5	WO 00/01074	1/6/00	Van Der Zwan et al.			
	B6	WO 99/22456	5/6/99	Grenabo			10/27/98

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	C1	Stephen Jantzi et al., "Quadrature Bandpass ΔΣ Modulation for Digital Radio," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 1935-1950.
	C2	Stephen Jantzi et al, "A Complex Bandpass ΔΣ Converter For Digital Radio," ISCAS, May/June 1994, pp. 453-456.
	C3	"Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," Analog Devices Corporate Information Press Release, <a href="http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html">http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html</a> , September 13, 1999, pp. 1-4.

Examiner: *Tod J. Paulus*Date Considered: *11/22/04*

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	C5	Jacques C. Rudell et al, "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 2071-2088.	
	C6	Jan Crols et al., "Low-IF Topologies for High-Performance Analog Front Ends of Fully Integrated Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 45, No. 3, March 1998, pp. 269-282.	
	C7	Jacques C. Rudell et al., "Recent Developments In High Integration Multi-Standard CMOS Transceiver for Personal Communication Systems," invited paper at the 1998 International Symposium on Low Power Electronics, Monterey, California, 6 pgs.	
	C8	Asad Abidi, "CMOS Wireless Transceivers: The New Wave," IEEE Communications Magazine, August 1999, pp. 119-124.	
	C9	Data Sheet, UAA3535HL, "Low Power GSM/DCS/PCS Multi-band Transceiver," Philips Semiconductors, February 17, 2000, pp. 1-24.	
	C10	Stephen Jantzi et al., "FP 13.5: A Quadrature Bandpass ΔΣ Modulator for Digital Radio," Digest of Technical Papers, 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, pp. 216-217, 460.	
	C11	S. A. Jantzi et al., "The Effects of Mismatch In Complex Bandpass ΔΣ Modulators," IEEE, 1996, pp. 227-230.	
	C12	Qiuting Huang, "CMOS RF Design-The Low Power Dimension," IEEE 2000 Custom Integrated Circuits Conference, pp. 161-166.	
	C13	Paolo Orsatti et al., "A 20-mA-Receive, 55-mA-Transmit, Single-Chip GSM Transceiver in 0.25-μm CMOS," IEEE Journal of Solid-State Circuits, Vol. 34, No. 12, December 1999, pp. 1869-1880.	
	C14	Qiuting Huang et al., "The Impact of Scaling Down to Deep Submicron on CMOS RF Circuits," IEEE Journal of Solid-State Circuits, Vol. 33, No. 7, July 1998, pp. 1023-1036.	
	C15	Behzad Razavi, "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 44, No. 6, June 1997, pp. 428-435.	

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Exam. Init.	Ref. Des.	Citation
	C16	Farbod Behbahani et al., "CMOS Mixers and Polyphase Filters for Large Image Rejection," IEEE Journal of Solid-State Circuits, Vol. 36, No. 6, June 2001, pp. 873-887.
	C17	Jan Crols et al., "A Single-Chip 900 MHz CMOS Receiver Front-End With A High Performance Low-IF Topology," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, pp. 1483-1492.
	C18	Analog Devices, Single-Chip Direct-Conversion GSM/GPRS/EDGE RFIC, Othello One, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C19	Analog Devices, AD6523/AD6524, GSM Direct Conversion Radio Chip Set, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
	C20	Analog Devices, GSM 3 V Transceiver IF Subsystem, AD6432, <a href="http://www.analog.com">www.analog.com</a> , pp. 1-20.
	C21	Hitachi, "RF Transceiver IC For GSM And PCN Dual Band Cellular Systems," HD155121F, ADE-207-265(Z), 1 <sup>st</sup> Edition, November 1998, pp. 1-56.
	C22	Analog Devices, AD7002 Specification, LC2MOS, GSM Baseband I/O Port, Rev. B, 1997, pp. 1-16.
	C23	Analog Devices, AD20msp415, GSM/DCS1800/PCS1900, Baseband Processing Chipset, Rev. O, 1997, pp. 1-7.
	C24	Kwientus et al., "A Single-Chip Universal Digital Satellite Receiver With 480-MHz IF Input," IEEE Journal of Solid-State Circuits, Vol. 34, No. 11, November 1999, pp. 1634-1646.
	C25	Minnis et al., "A Low-If Polyphase Receiver For GSM Using Log-Domain Signal Processing," IEEE Radio Frequency Integrated Circuits Symposium, 2000, pp. 83-86.
	C26	Atkinson et al., "A Novel Approach To Direct Conversion RF Receivers For TDMA Applications," Analog Devices, 1999, pp. 1-5.
	C27	Crochiere et al., "Optimum FIR Digital Filter Implementations For Decimation, Interpolation, And Narrow-Band Filtering," IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-23, No. 5, October 1975, pp. 444-456.
	C28	Hogenauer, "An Economical Class Of Digital Filters For Decimation And Interpolation," IEEE, 1981, pp. 155-162.
	C29	Brandt et al., "A Low-Power, Area-Efficient Digital Filter For Decimation And Interpolation," IEEE Journal Of Solid-State Circuits, Vol. 29, No. 6, June 1994, pp. 679-687.

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(Use several sheets if necessary)Applicants  
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	C30	Philips Semiconductors, "uaa3535-Low-Power GSM GPRS Triple-Band Near-Zero-IF Transceiver," October 1999, 4 pgs.	Technology Center 2800
	C31	D'Avella et al., "An Adaptive MLSE Receiver For TDMA Digital Mobile Radio," IEEE Journal On Selected Areas In Communications, Vol. 7, No.1, January 1989, pp. 122-129.	
	C32	Razavi, "CMOS RF Receiver Design For Wireless LAN Applications," IEEE, 1999, pp. 275-280.	
	C33	Lucent Technologies, "W3020 GSM Multiband RF Transceiver," Advance Data Sheet, December 1999, pp. 1-44.	
	C34	Lucent Technologies, "DSP1620 Digital Signal Processor," Data Sheet, June 1998, pp. 1-178.	
	C35	Steyaert et al., "A 2-V CMOS Cellular Transceiver Front-End," IEEE Journal of Solid-State Circuits, Vol. 35, No. 12, December 2000, pp. 1895-1907.	
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	C38	"Digest Of Technical Papers," 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, 5 pgs.	
	C39	RF Micro Devices, RF2968, Product Description, Blue Tooth Transceiver, Rev A19, pp. 11-199-11-222.	
	C40	Texas Instruments, TRF6901, "Single Chip RF Transceiver," March 2002, pp. 1-29.	
	C41	Texas Instruments, TRF6900A, "Single Chip RF Transceiver," September 2001, pp. 1-34.	
	C42	Texas Instruments, TRF6900, "Single Chip RF Transceiver, October 1999, pp. 1-32.	
	C43	Philips Semiconductor, "Bluetooth RF Transceiver," Data Sheet, UAA3558, December 21, 2000, pp. 1-5.	
	C44	Philips Semiconductor, "Image Reject 1 800 MHz Transceiver For DECT Applications," Data Sheet, UAA2067G, October 22, 1996, pp. 1-24.	

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	C57	RF Micro Devices, "Polaris Total Radio Solution," Press Release, 2002, 1 pg.
	C58	Tuttle, "Introduction To Wireless Receiver Design," Tutorial, 2002, pp. 2-58.
	C59	Rael et al., "Design Methodology Used In A Single-Chip CMOS 900 MHz Spread-Spectrum Wireless Transceiver," 35 <sup>th</sup> Design Automation Conference, June 1998, 6 pgs.
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	C62	Shoaei et al., "Optimal (Bandpass) Continuous-Time $\Delta\Sigma$ Modulator," pp. 489-492.
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	C66	Aziz et al., "Performance Of Complex Noise Transfer Functions In Bandpass And Multi Band Sigma Delta Systems," IEEE, 1995, pp. 641-644.
	C67	Jantzi, "A Fourth-Order Bandpass Sigma-Delta Modulator," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 3, March 1993, pp. 282-291.
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	C69	Sedra et al., "Complex Analog Bandpass Filters Designed By Linearly Shifting Real Low-Pass Prototypes," IEEE International Symposium On Circuits And Systems, Vol. 3, 1985, 5 pgs.
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	C71	Rudell, et al., "Second Generation Multi-Standard Monolithic CMOS RF Transceiver," University of California, Berkeley, Slides 1 through 9 (June 1996)
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	C73	Copending U.S. Patent Application Serial No. 09/821,342, filed March 29, 2001, "Partitioned Radio-Frequency Apparatus And Associated Method" (SILA:072)
	C74	Copending U.S. Patent Application Serial No. 09/821,340, filed March 29, 2001, "Digital Interface In Radio-Frequency Apparatus And Associated Methods" (SILA:073)

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	C75	Copending U.S. Patent Application Serial No. 10/075,094, filed February 13, 2002, "Radio-Frequency Communication Apparatus And Associated Methods" (Sila:074)
	C76	Copending U.S. Patent Application Serial No. 10/075,098, filed February 13, 2002, "Apparatus And Methods For Generating Radio Frequencies In Communication Circuitry" (Sila:075)
	C77	Copending U.S. Patent Application Serial No. 10/075,122, filed February 12, 2002, "Digital Architecture For Radio-Frequency Apparatus And Associated Methods" (Sila:078)
	C78	Copending U.S. Patent Application Serial No. 10/083,633, filed February 26, 2002, "Apparatus And Methods For Calibrating Signal-Processing Circuitry" (Sila:080)
	C79	Copending U.S. Patent Application Serial No. 10/081,121, filed February 22, 2002, "Calibrated Low-Noise Current And Voltage References And Associated Methods" (Sila:095)
	C80	Copending U.S. Patent Application Serial No. 10/074,591, filed February 13, 2002, "Apparatus For Generating Multiple Radio Frequencies In Communication Circuitry And Associated Methods" (Sila:096)
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	C84	Copending U.S. Patent Application Serial No. 10/081,730, filed February 22, 2002, "Method And Apparatus For Synthesizing High-Frequency Signals For Wireless Communications" (Sila:106)
	C85	Copending U.S. Patent Application Serial No. 10/079,057, filed February 19, 2002, "Apparatus And Method For Front-End Circuitry In Radio-Frequency Apparatus" (Sila:107)
	C86	Allen, "Complex Analog Filters Obtained From Shifted Lowpass Prototypes," September 1985, 118 pgs.

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Atty. Docket No.

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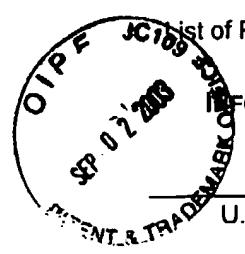
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